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File: DWPI

Oct 2, 1995

DERWENT-ACC-NO: 1996-117438

DERWENT-WEEK: 199613

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TITLE: Automatic call set up on cellular telephone network - indicating local access and transport area identification number of area within which both parties are located for all roamer routing messages to set up most cost effective route

INVENTOR: NGUYEN, V A

PATENT-ASSIGNEE:

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PRIORITY-DATA: 1994US-0222599 (April 1, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2143146 A	October 2, 1995		055	H04Q007/38
US 5526400 A	June 11, 1996		020	H04Q007/38

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CA 2143146A	February 22, 1995	1995CA-2143146	
US 5526400A	April 1, 1994	1994US-0222599	

INT-CL (IPC): H04 Q 7/22; H04 Q 7/38

ABSTRACTED-PUB-NO: CA 2143146A

BASIC-ABSTRACT:

The method for automatically routing calls within a cellular telecommunications network involves determining the local access and transport area (LATA) within which a call to be routed to a terminating subscriber originates. The LATA within which the terminating subscriber is located is determined. The originating LATA and the terminating LATA are compared. the call is routed from the originating subscriber to the terminating subscriber through the network in response to the result of the comparison.

Pref., a pre-routing call set up function determines whether both subscribers are located in the same LATA and places routes the call entirely on a voice channel sent over signalling data lines prior to routing it to the gateway exchange, if they are both in the same area.

USE/ADVANTAGE - Minimises usage of gateway exchange. Least cost routing.

ABSTRACTED-PUB-NO:

US 5526400A
EQUIVALENT-ABSTRACTS:

A method for the automatic routing of calls within a cellular telecommunication network divided into a plurality of local access and transport areas (LATAs), the network including a plurality of exchanges within which mobile subscribers are located, the exchanges connected to one another by both signalling data lines and voice circuits wherein calls incoming to a gateway exchange are routed to terminating subscribers within other exchanges, and the network including a pre-routing call setup functional capability of locating a terminating subscriber on a voice channel by means of signals sent entirely over said signalling data lines and prior to seizing a voice circuit and routing the call from the gateway exchange to the exchange where the terminating subscriber is currently located, said method comprising:

determining the LATA within which a call to be routed to a terminating subscriber originates;

determining the LATA within which the terminating subscriber is located;

comparing the originating LATA and the terminating LATA at the exchange where the terminating subscriber is currently located;

routing the call from the originating subscriber to the terminating subscriber through the network by enabling said prerouting call setup functional capability in response to the originating LATA and terminating LATA being the same, and disabling said prerouting call setup functional capability in response to the originating LATA and terminating LATA being different so that once the called mobile station is identified within the exchange where it is currently located by means of the signalling data lines, a voice circuit from the gateway exchange to that exchange is seized while the call is attempted to be completed to the terminating mobile station.

CHOSEN-DRAWING: Dwg.4/7 Dwg.6a,b/7

TITLE-TERMS: AUTOMATIC CALL SET UP CELLULAR TELEPHONE NETWORK INDICATE LOCAL ACCESS
TRANSPORT AREA IDENTIFY NUMBER AREA PARTY LOCATE ROUTE MESSAGE SET UP COST EFFECT
ROUTE

DERWENT-CLASS: W01

EPI-CODES: W01-B05A1A; W01-B05A3A;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1996-098214